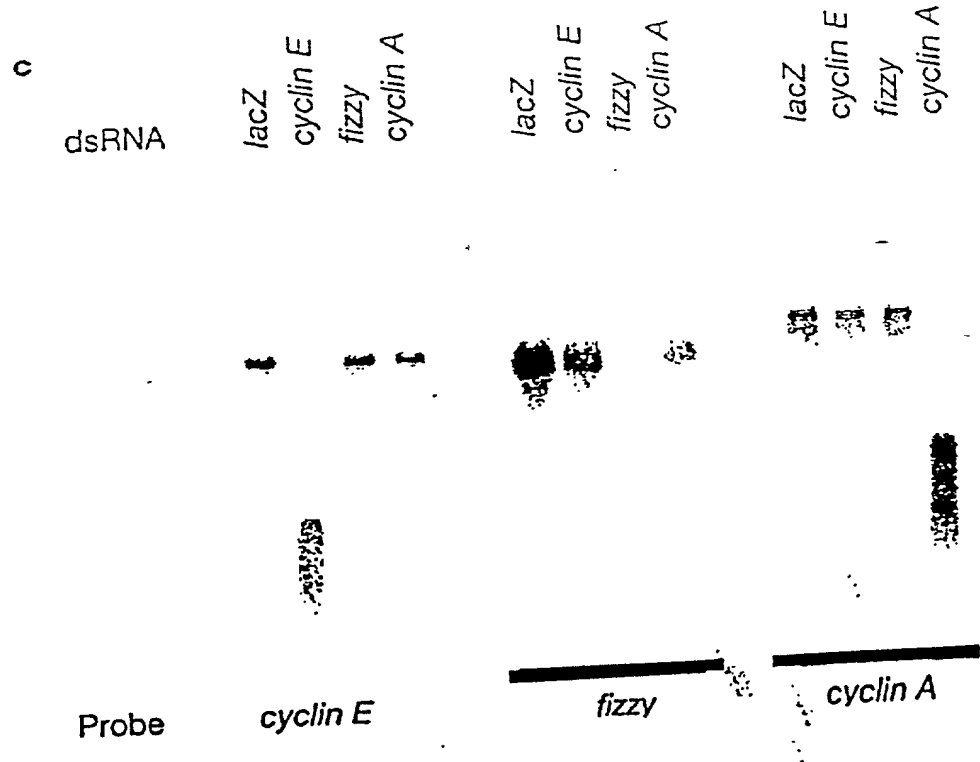
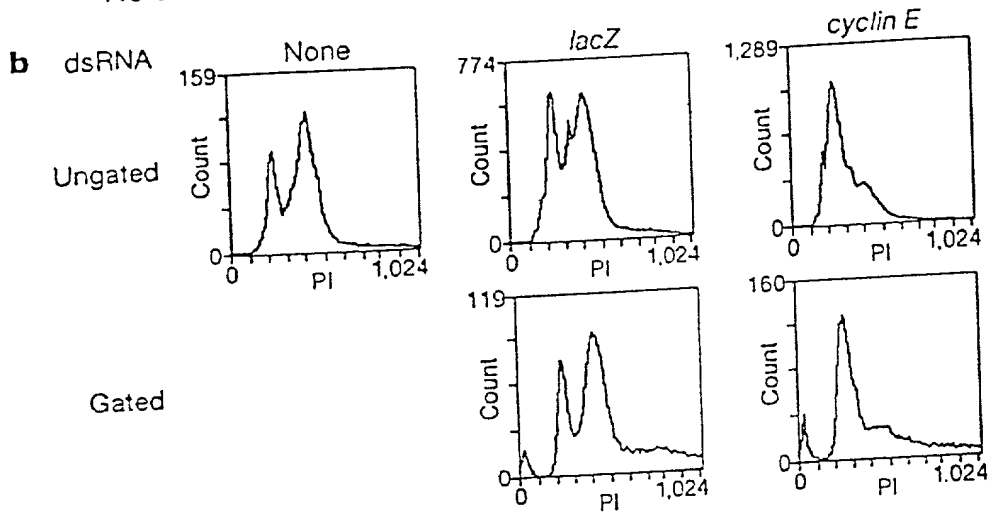
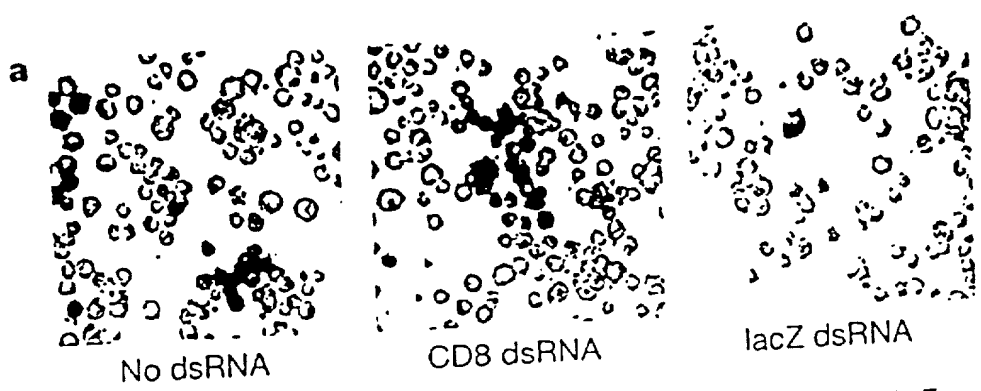


Figure 1



F07250 4559360

# Figure 2

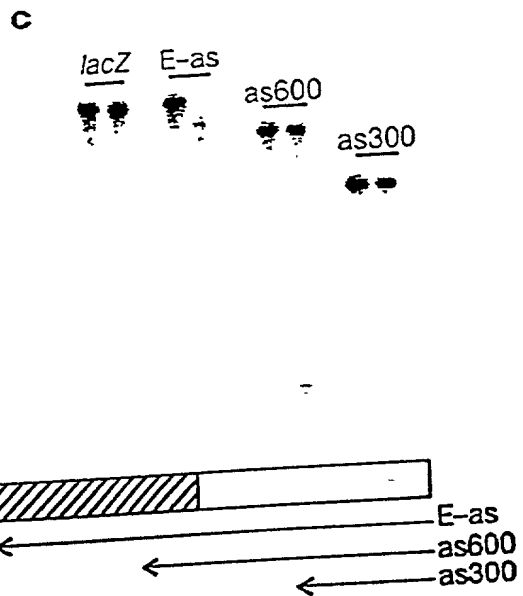
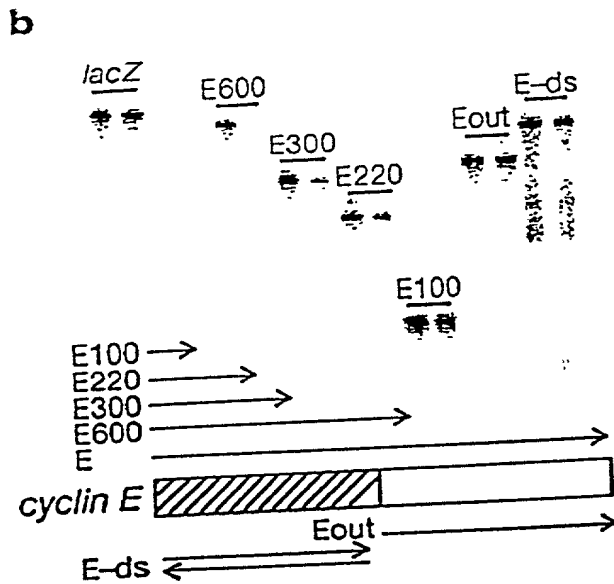
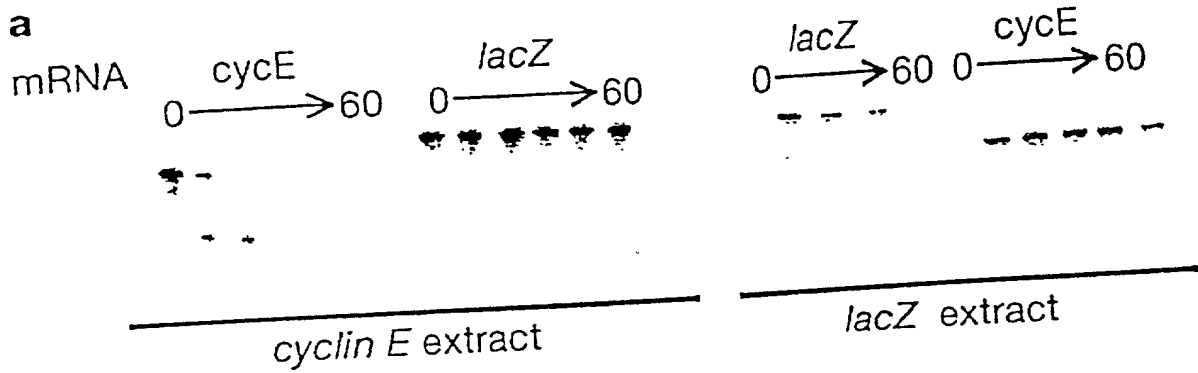
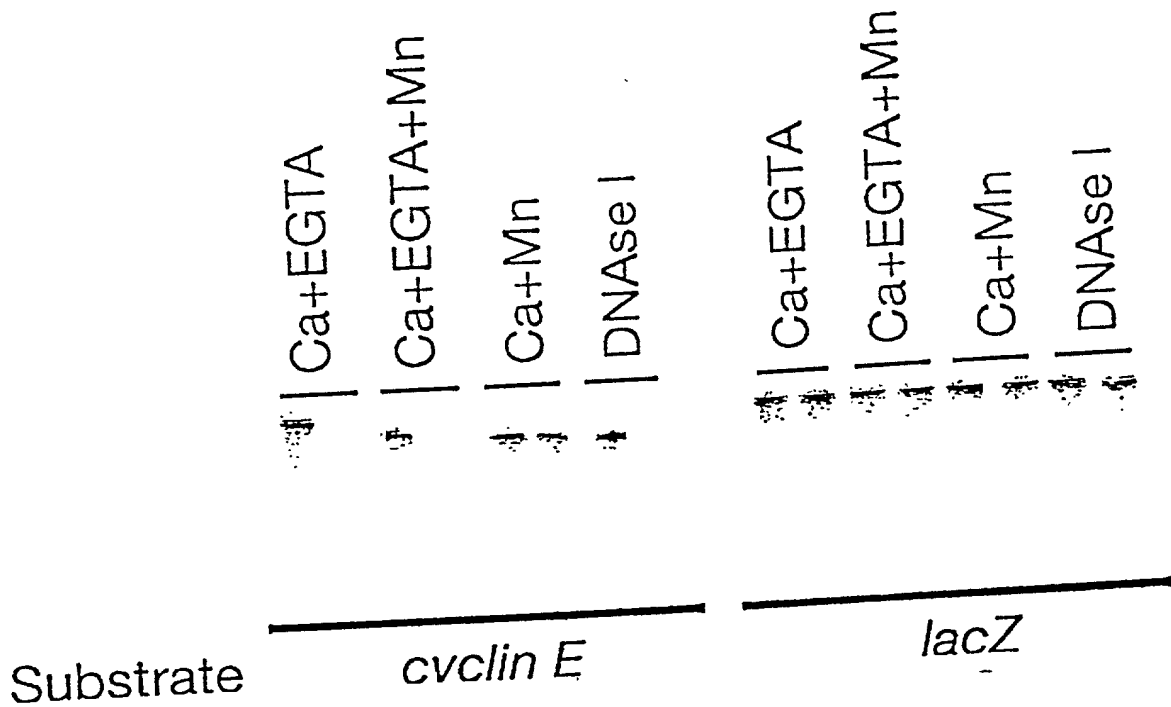


Figure 3



# Figure 4

104250" 239999

a

S100  
Crude extract

~25 nt.—

b

lacZ

cyclin E

~25 nt.—

cyclin E  
Northern

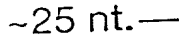
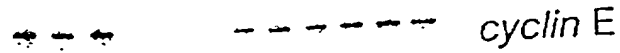
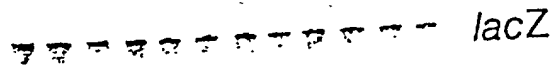
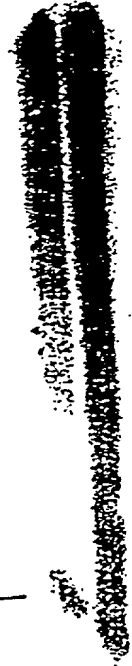


Figure 5

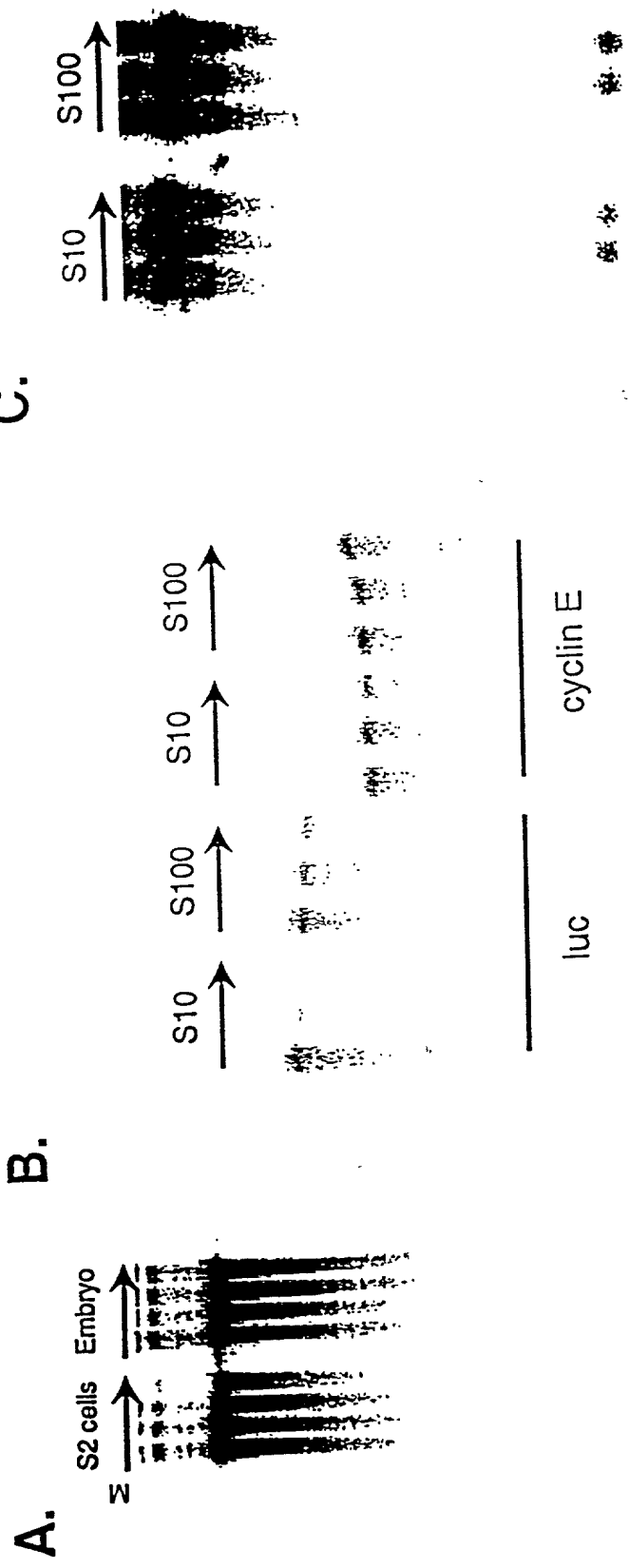


Figure 6a-c

4539860

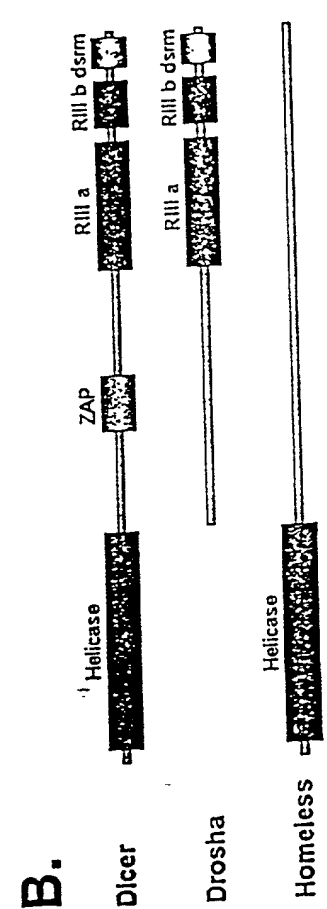
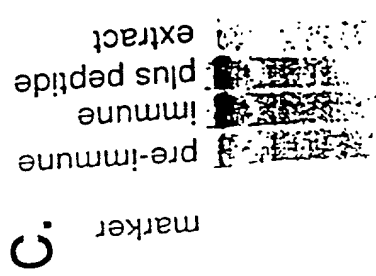
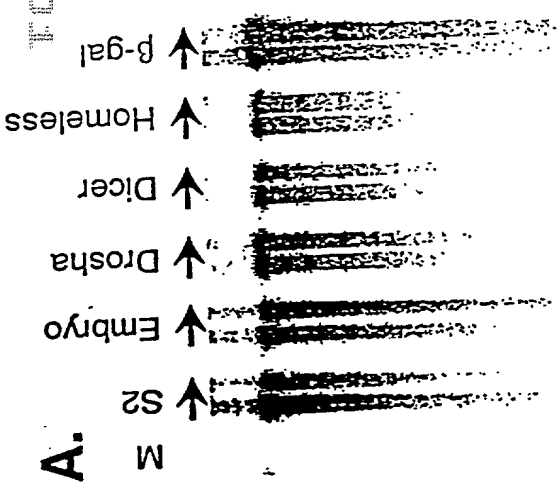
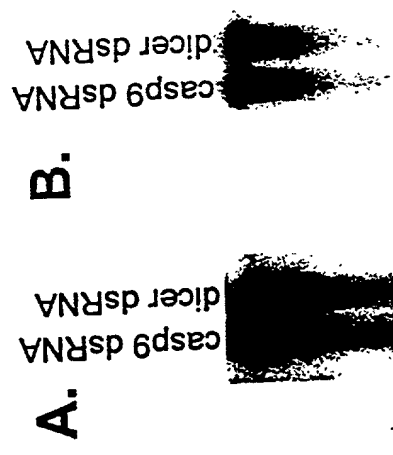




Figure 7



**C.**

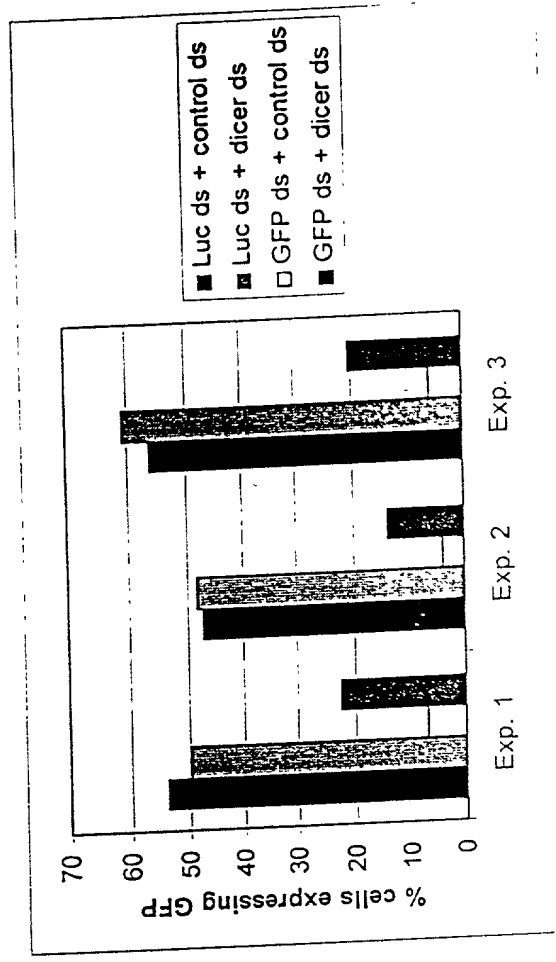




Figure 8A, B

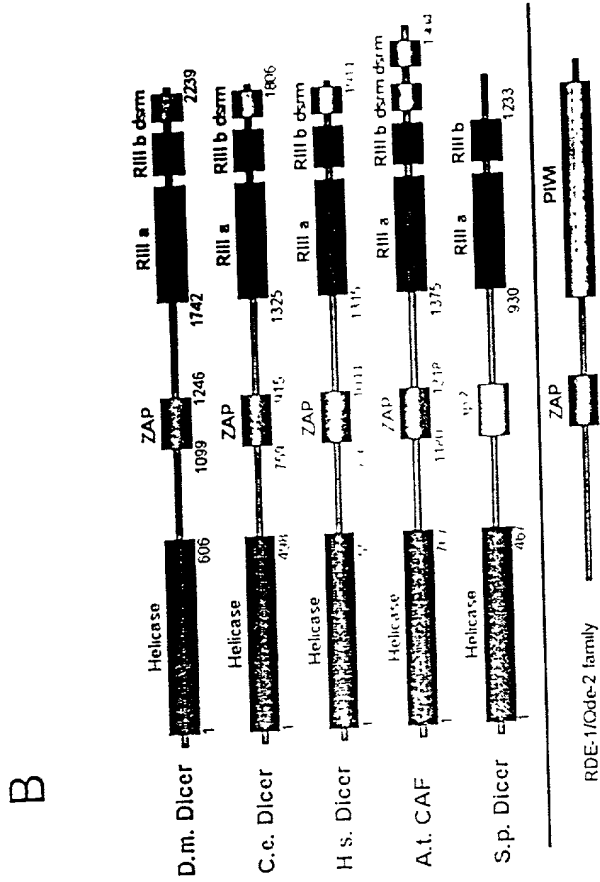


Figure 9

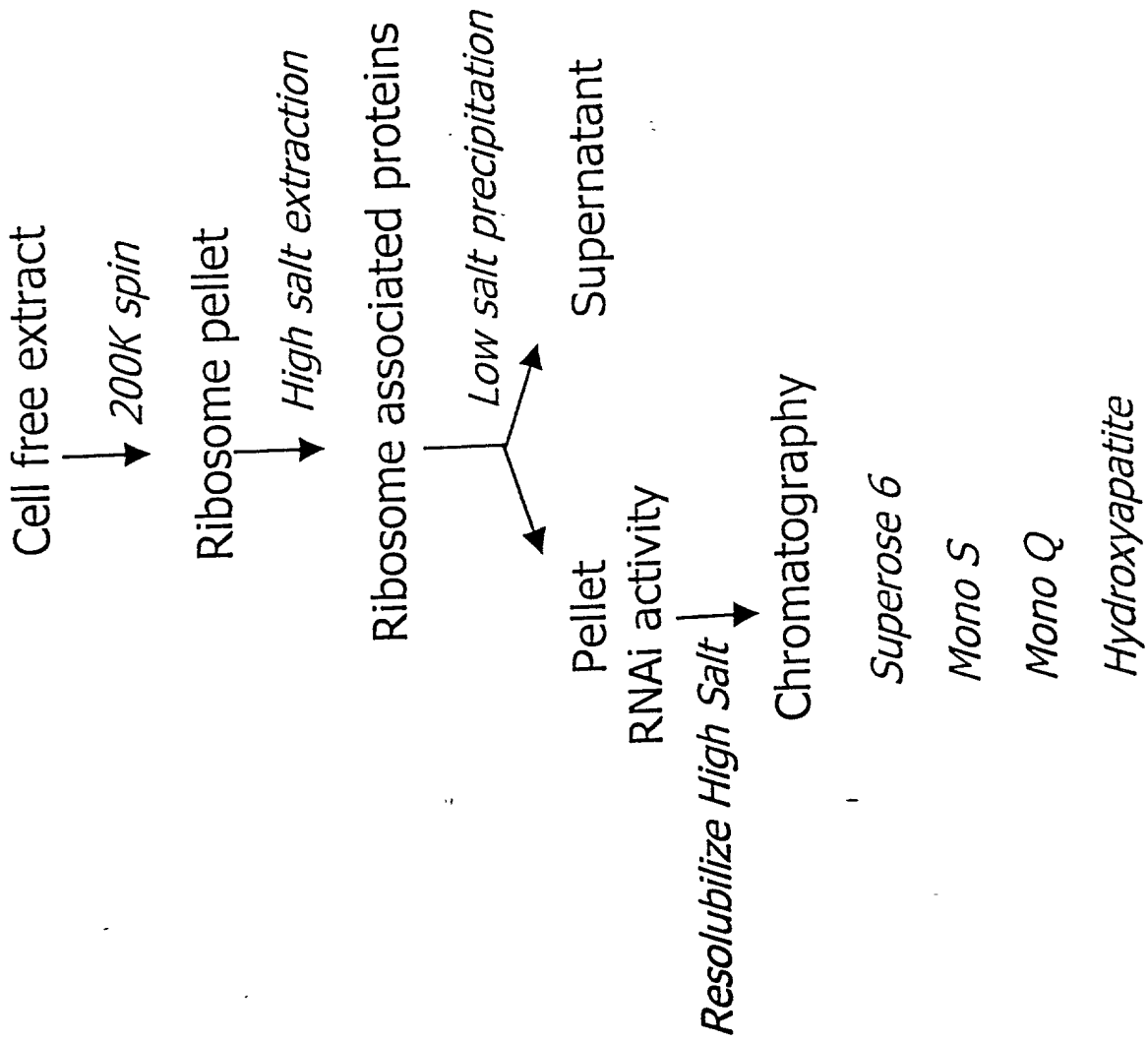


Figure 10

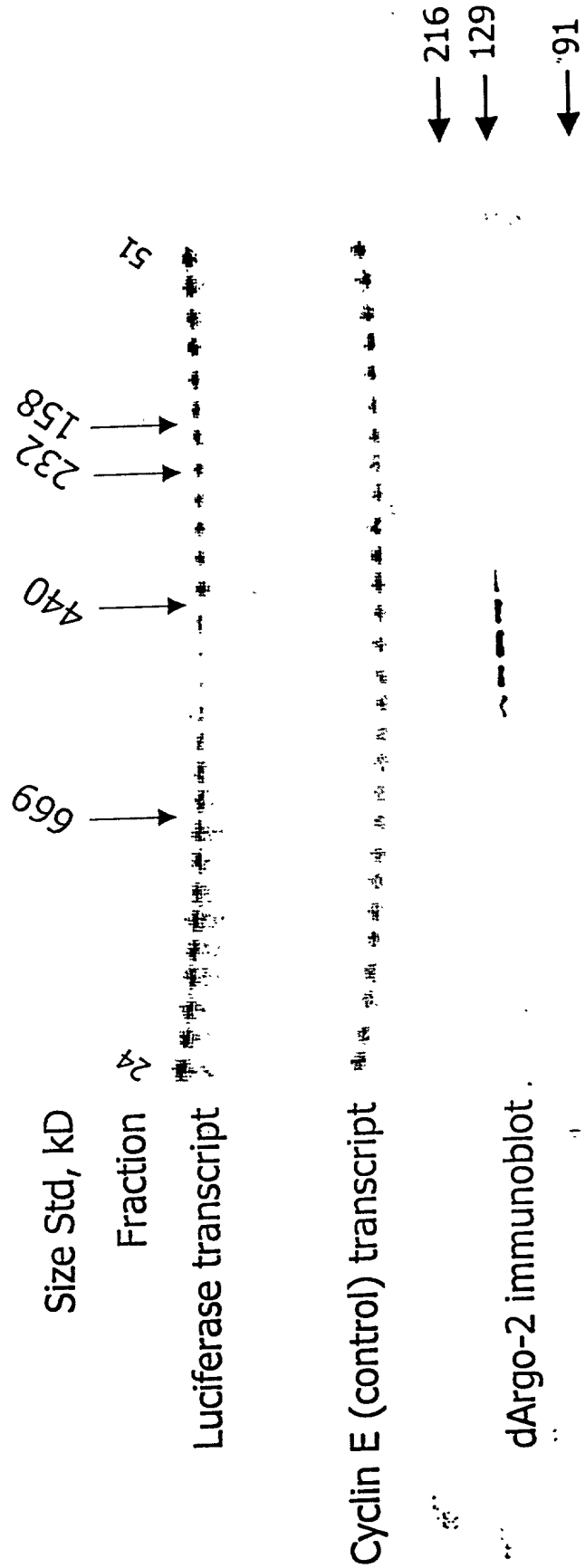


Figure 11

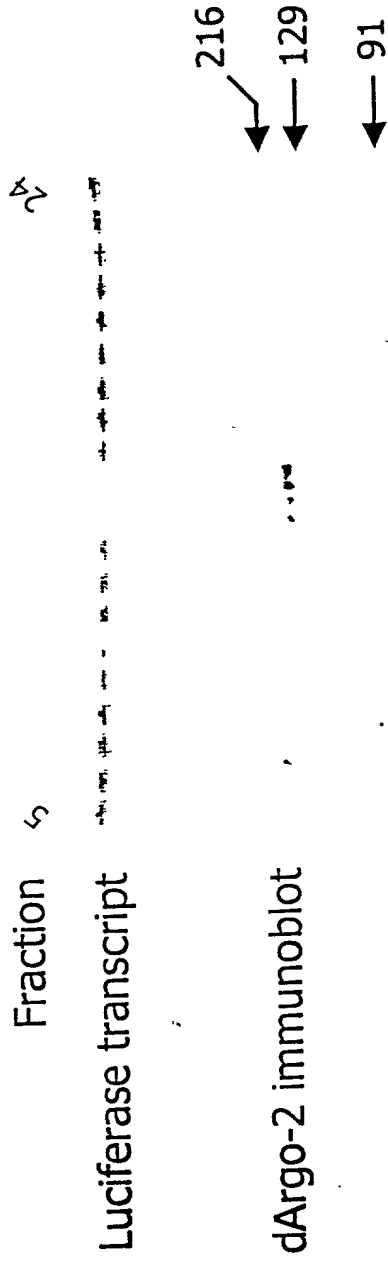


Figure 12

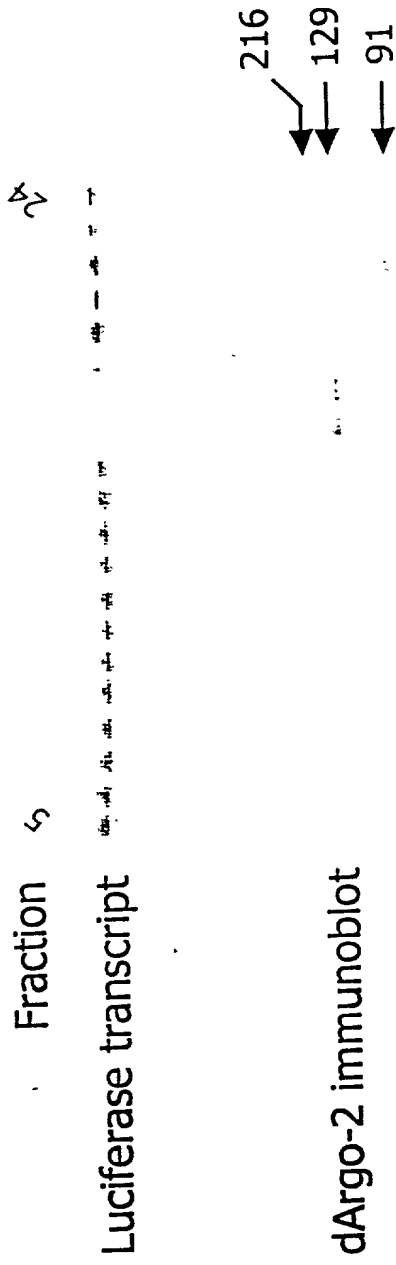


Figure 13

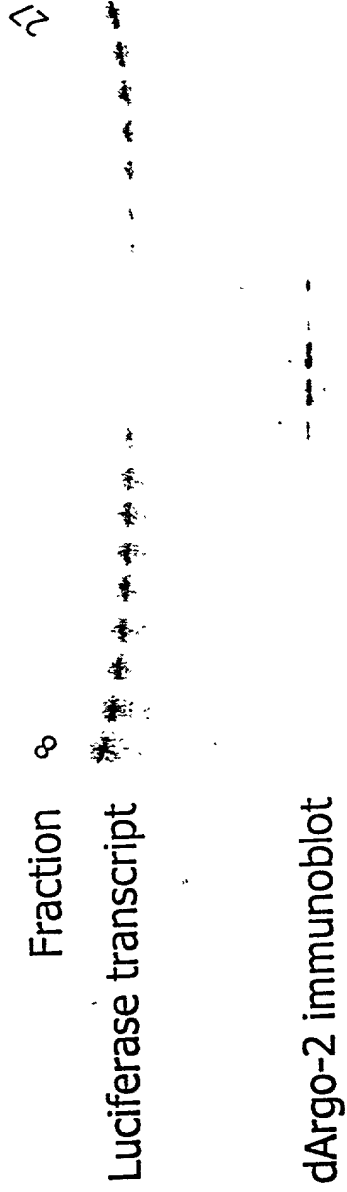


Figure 14

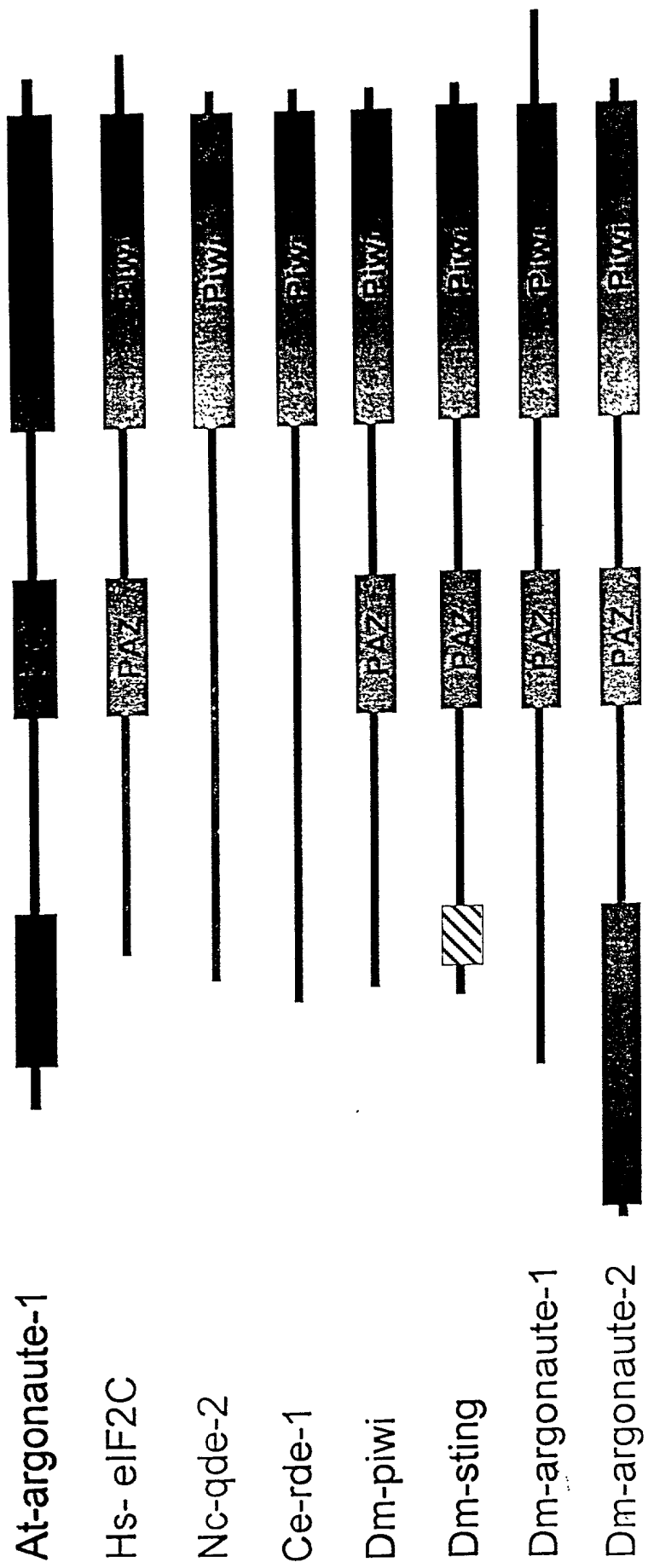
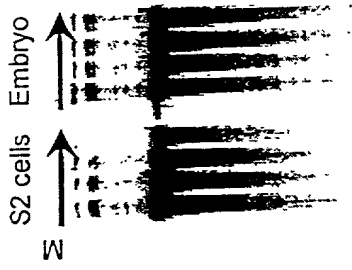






Figure 16



100

Figure 17

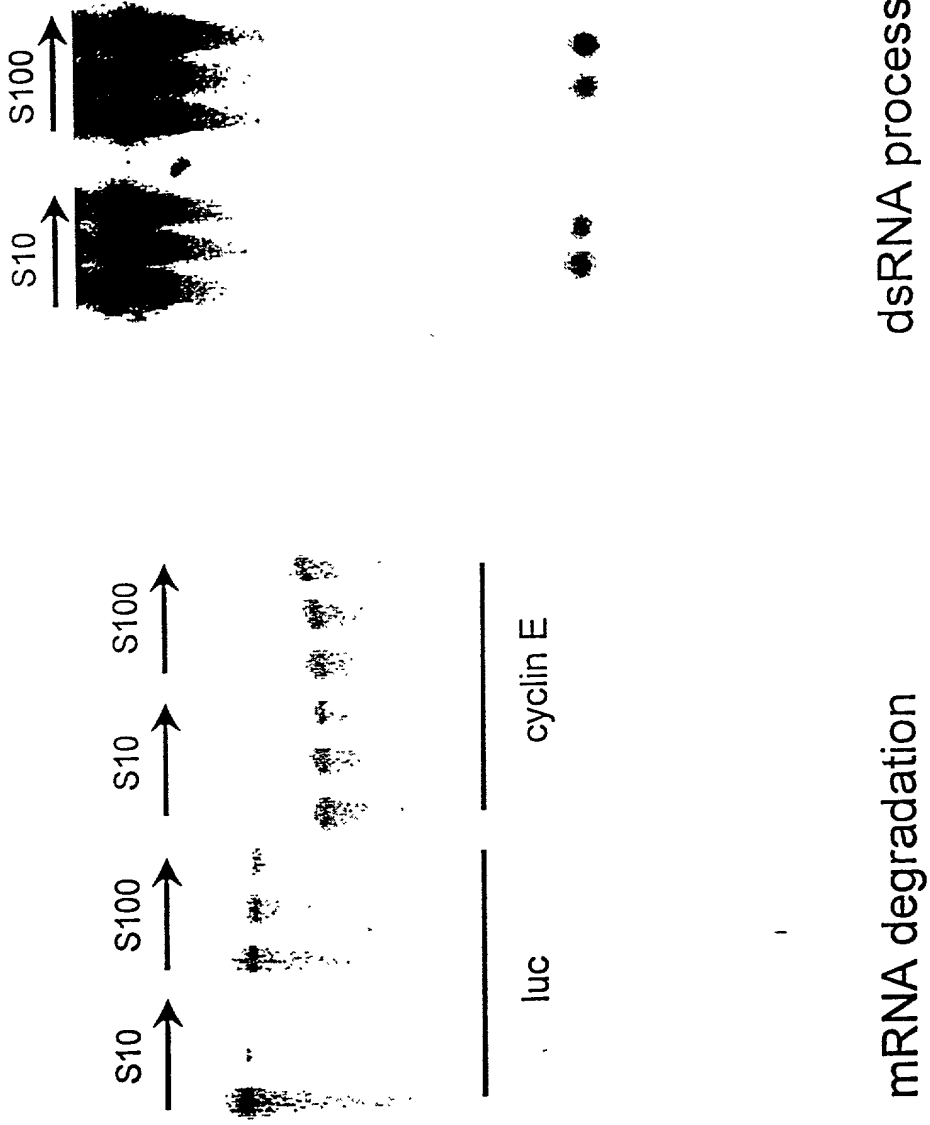
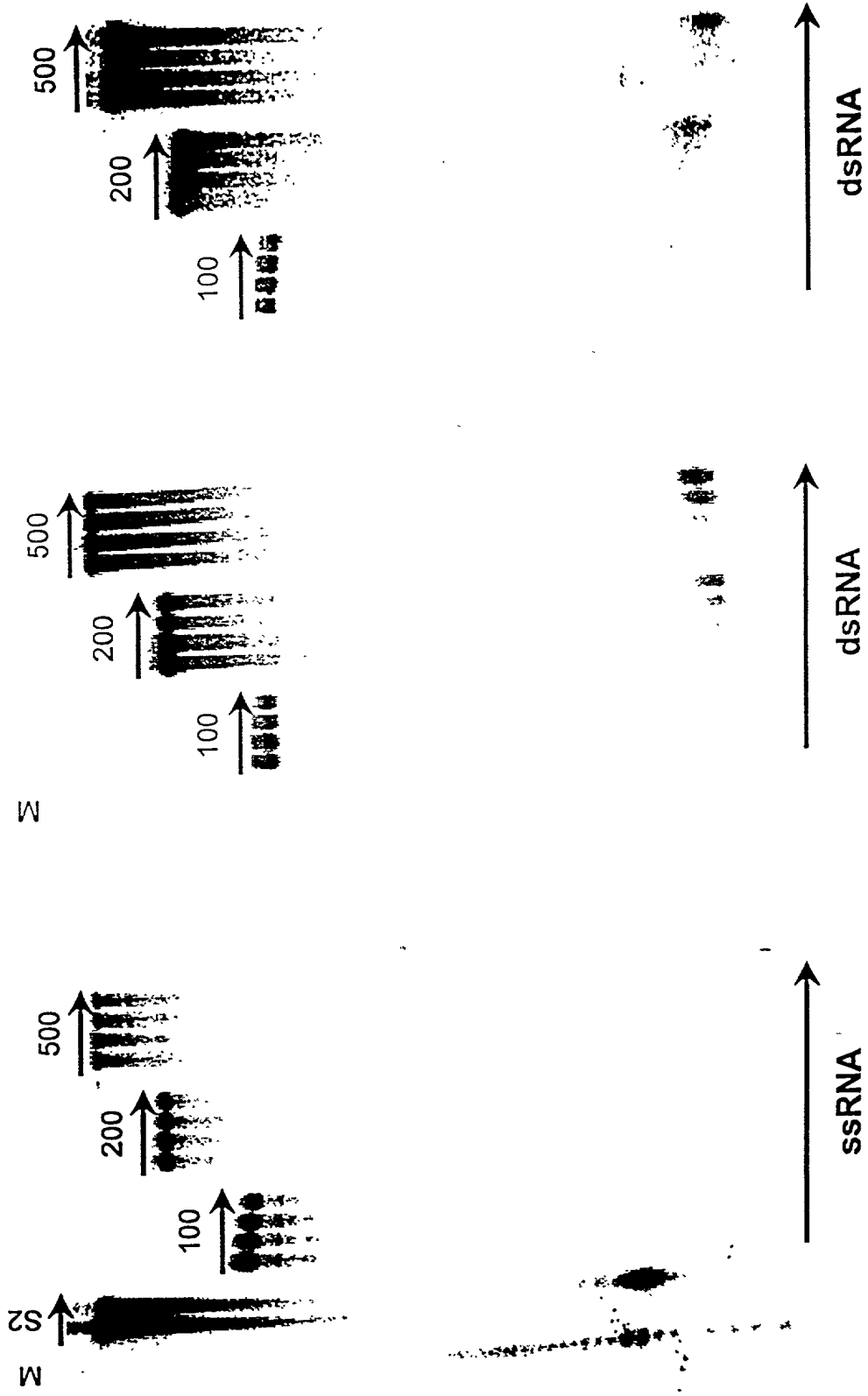
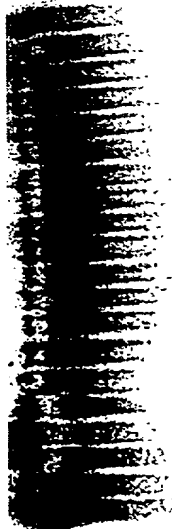


Figure 18



FORSD 7599860

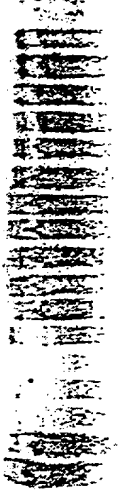
Resource Phenyl



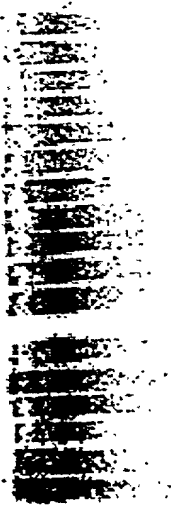
HAP



Q-sepharose



Superose



S-sepharose

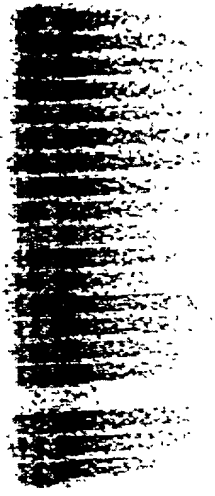


Figure 19

Purification of the 22-mer generating enzyme

Figure 20

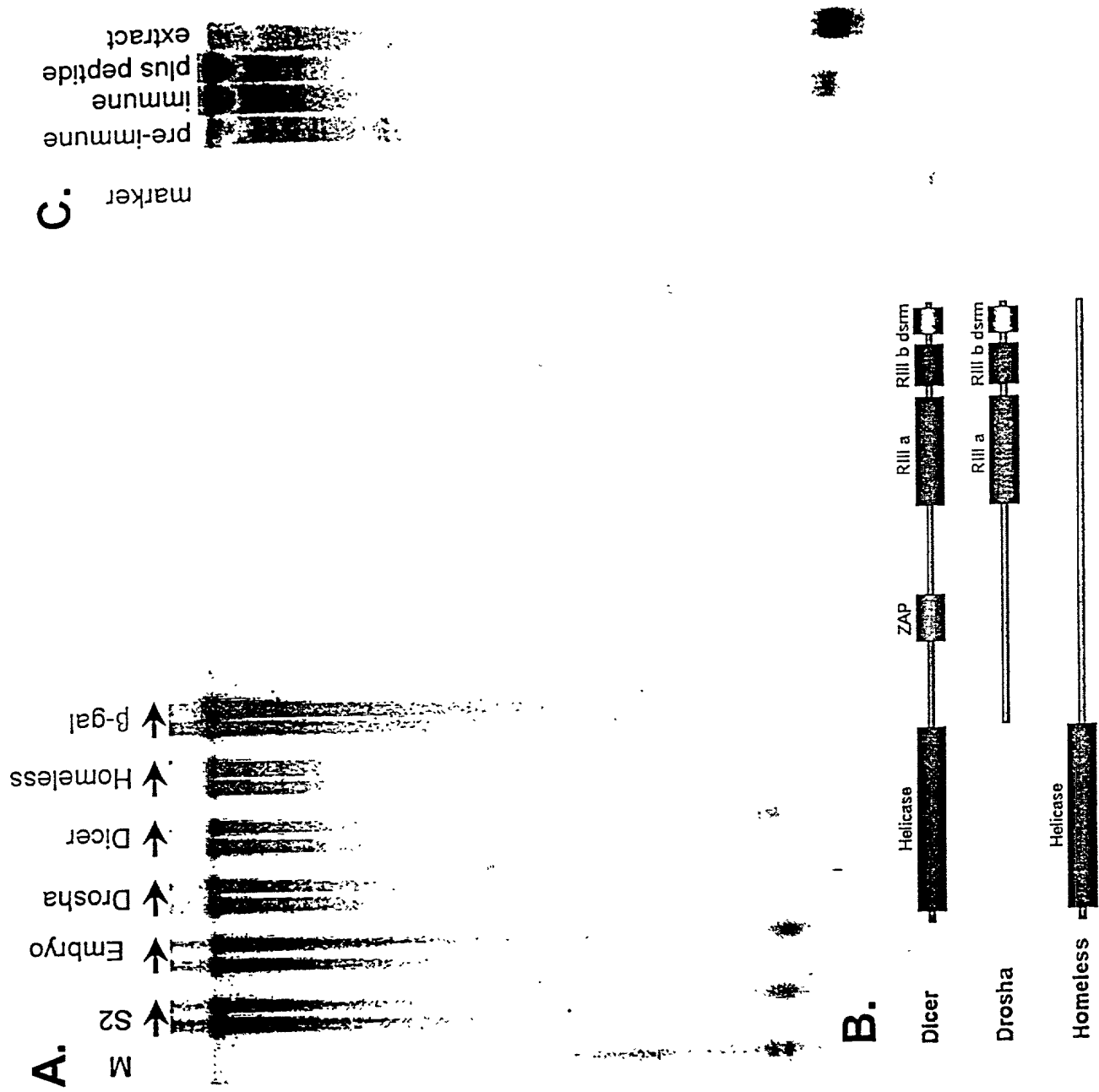


Figure 21

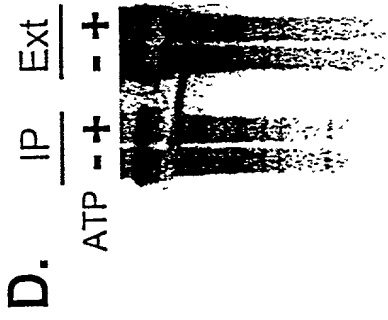


Figure 22

Dicer IP  
RISC  
control  
marker

F

RISC - hs  
RISC - ls

total

E

Figure 23

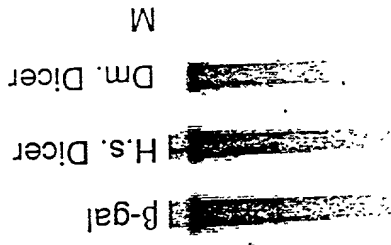
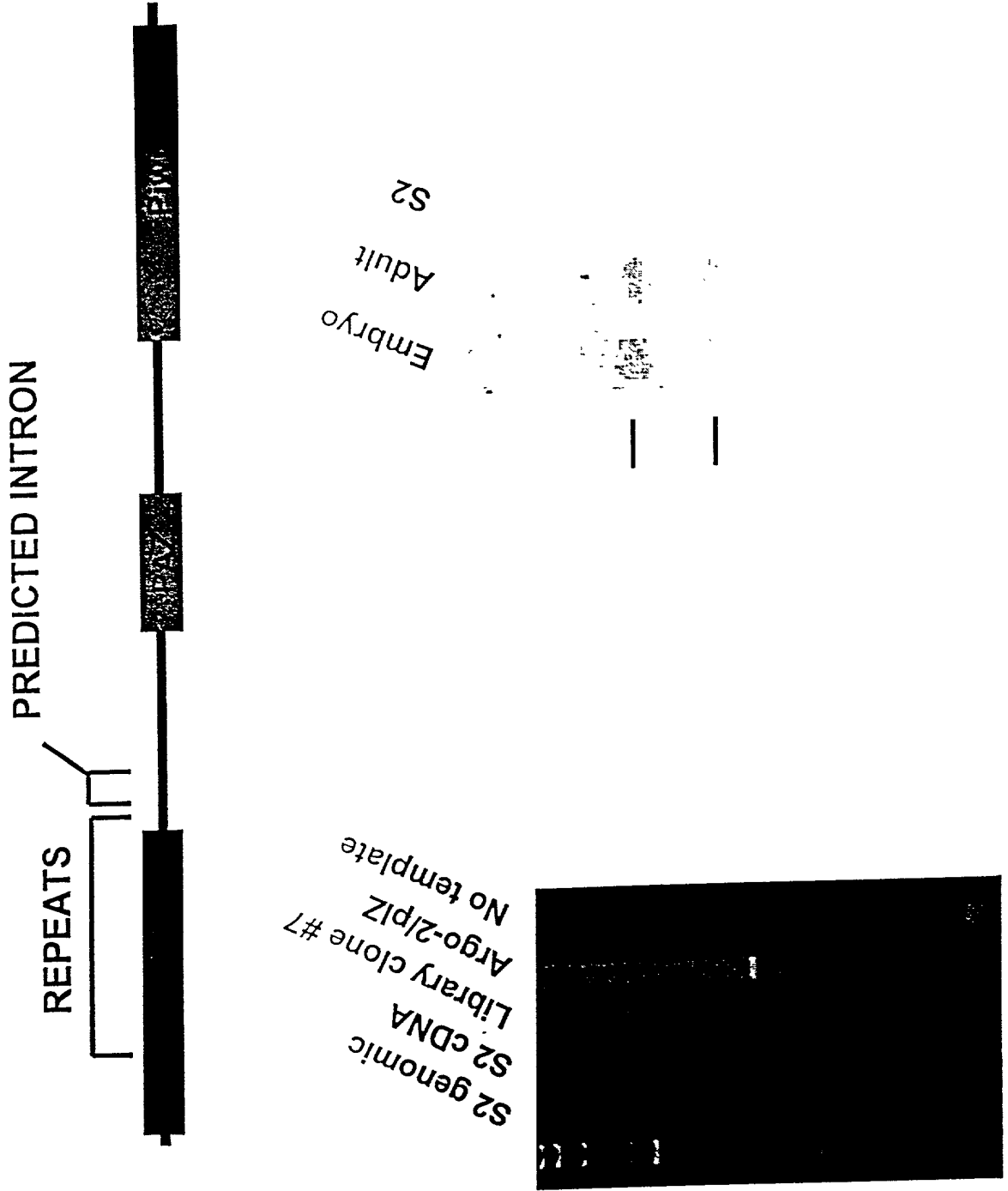




Figure 24

MGKKDKNKKGGQDSAAAQPQQQQKQQ  
 QPHQQQQSSRQQPSTSSGSRASGFQQGGQQKQSDAEGWTAQKKQKQKQQVQGWTKQ  
 GQQGGHQGRQGDGGYQQRPPGQQGGHQGRQGGEGYQQRPPGQQGGHQGRQGGEGYQQRPSGQ  
 QEGYQQRPSGQQGGHQGRQGGEGYQQRPPGQQGGHQGRQGGEGYQQRPSGQGGHQGRQGGQ  
 QGGHQGRQGGEGYQQRPSGQQGGHQGRQGGEGYQQRPSGQQGGHQGRQGGQ  
 EGGYQQRPPGQQPNQTQSQGYQSRGPPQQQAAPLPPQAGSIKRGTIKPGQVG  
 INYLDLDSKMPSVAYHYDVKIMPERPKFYRQAFEQFRVDQLGGAVLAYDGKASCYS  
 VDKLPLNSQNEVTVDRNGRTLRYTIEIKETGDSTIDLKSLTYMNDRIFDKPMRAM  
 QCVVVLASPCHNKAI R VGRSFFKMSDPNNRHELDG YEALVGLYQAFMLGDRPFLNV  
 DISHKSFPISMPMIEYLERFSLKAKINNTTNLDYSRRFLEPFLRGINVVYTPPQSFQS  
 APRVYRVNGLSRPASSETFEHDKKVVTIASYFHSRNYPLKFPQLHCLNVGSSIKSIL  
 LPIELCSIEEGQALNRKDGATQVANMIKYAATSTNVKRKIMNLLQYFQHNLDPTISR  
 FGIRIANDFIVVSTRVLSPPQVEYHSKRFTVMKNGSWRMDGMKLEPKPKKAHKCAVLY  
 CDPRSGRKMNYTQLNDFGNLII SQGKAVNISLSDSDVTYRPFDDERSLDTIFADLKRS  
 QHDLAIVIIPQFRISYDTIKQKAELQHGLTQCIKQFTVERKCNQTIGNILLKINSK  
 LINGINHKKIKDDPRLPMMKNTMYIGADVTHPSPDQREI PSVVGVAAASHDPYGASYNMQY  
 RLQRGALEEIEDMFSITLEHLRVYKEYRNAYPDHIIYRDGVSDGQFPKIKNEELRCI  
 KQACDKVGCCKPKICCVIVVKRRHTRFFPSGDVTTSNKFNNVDPGTVVDRTIVHPNEMQ  
 FFMVSHQAIQGTAKPTRYNVIENTGNLDIDLQQLTYNLCHMFPRCNRSVSYPAPAYL  
 AHLVAARGRVYLTGTNRFLDLKKEYAKRTIVPEFMKKNPMYFV

Figure 25



10450" 259960

Embryo extract  
hdicer transfected  
untransfected

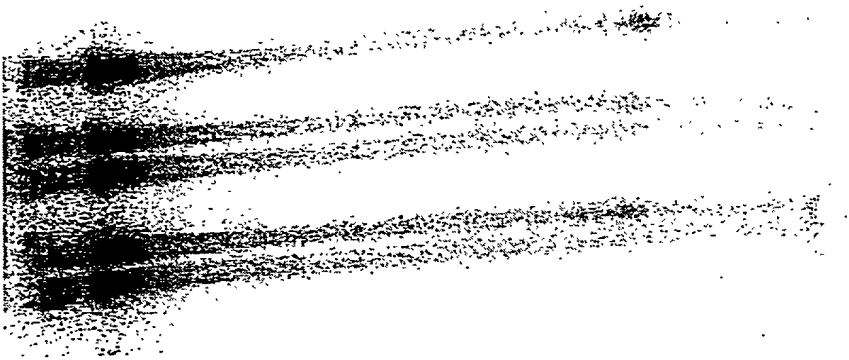
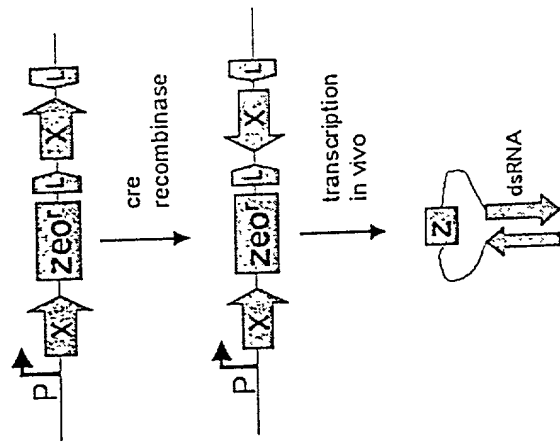


Figure 26

Figure 27



# Dual luciferase assay 21hrs post-transfection (.4ug dsRNA)

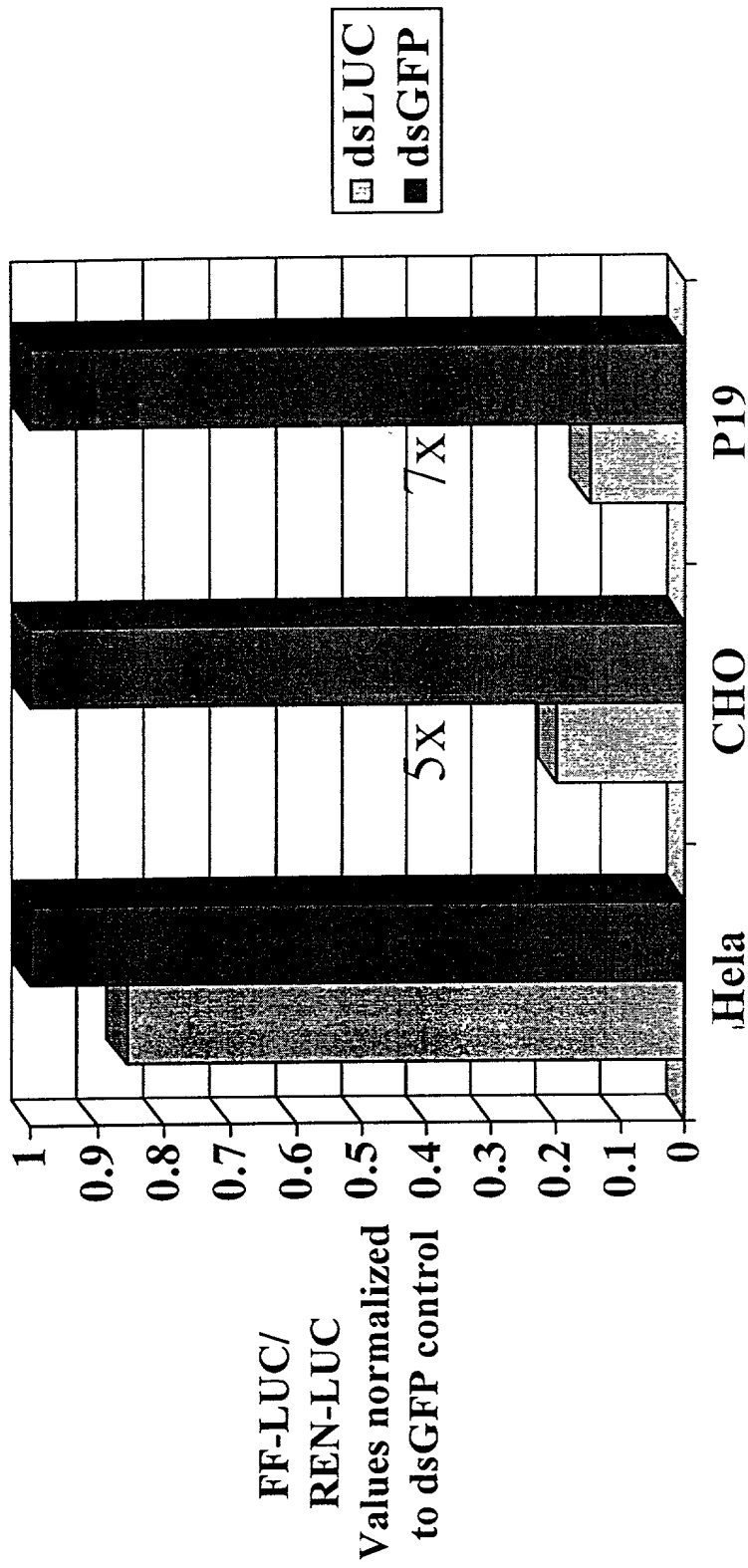


Figure 28

# Dual luciferase assay with P19 cells (.5ug dsRNA)

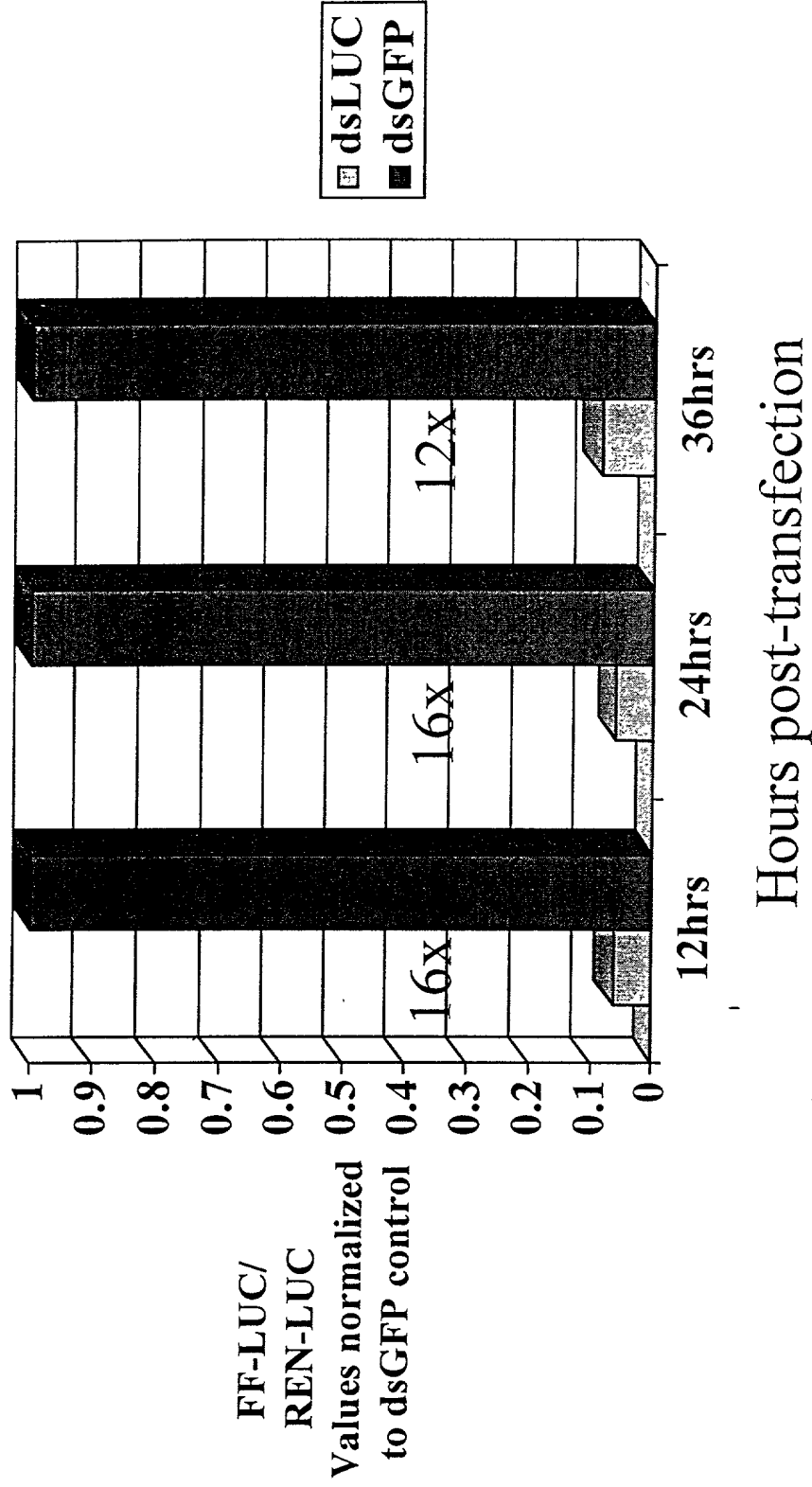
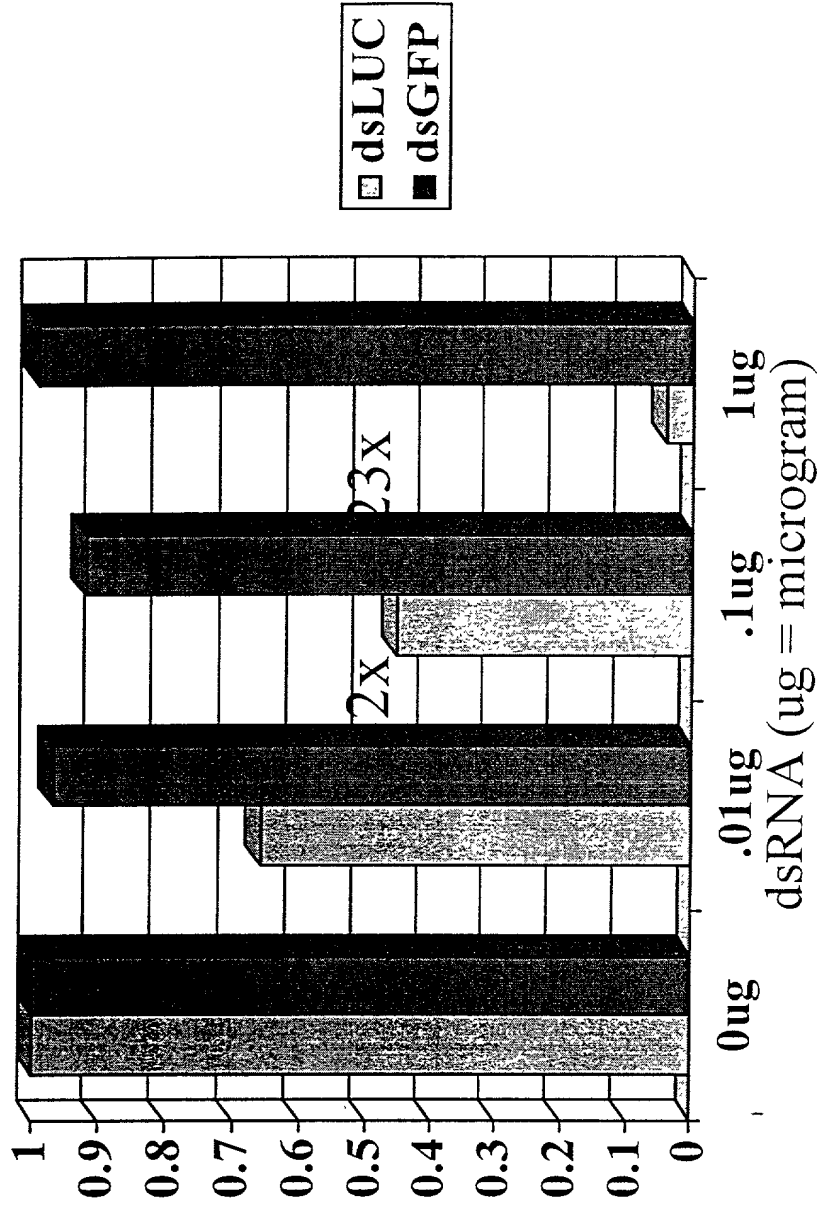


Figure 29

# Dual luciferase assay using *in vitro* translation in P19 extracts



FF-LUC/  
REN-LUC  
Values normalized  
to 0microg control

Figure 30

# Suppression of luciferase activity is dsRNA-specific for *in vitro* translation assay

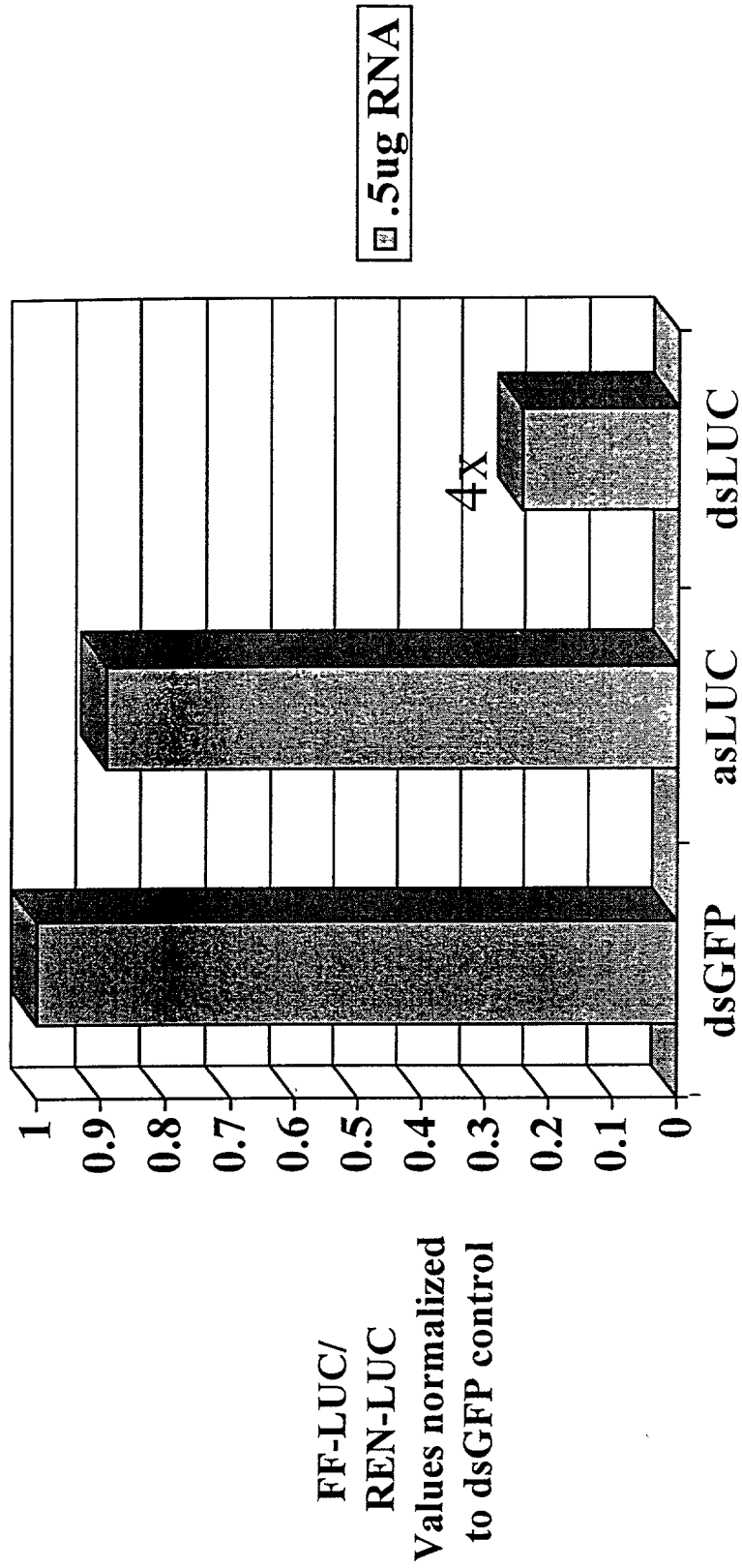


Figure 31



P19 cells soaked with various amounts of dsRNA for 12hrs in 2mL growth medium (alpha MEM, 10% FBS)

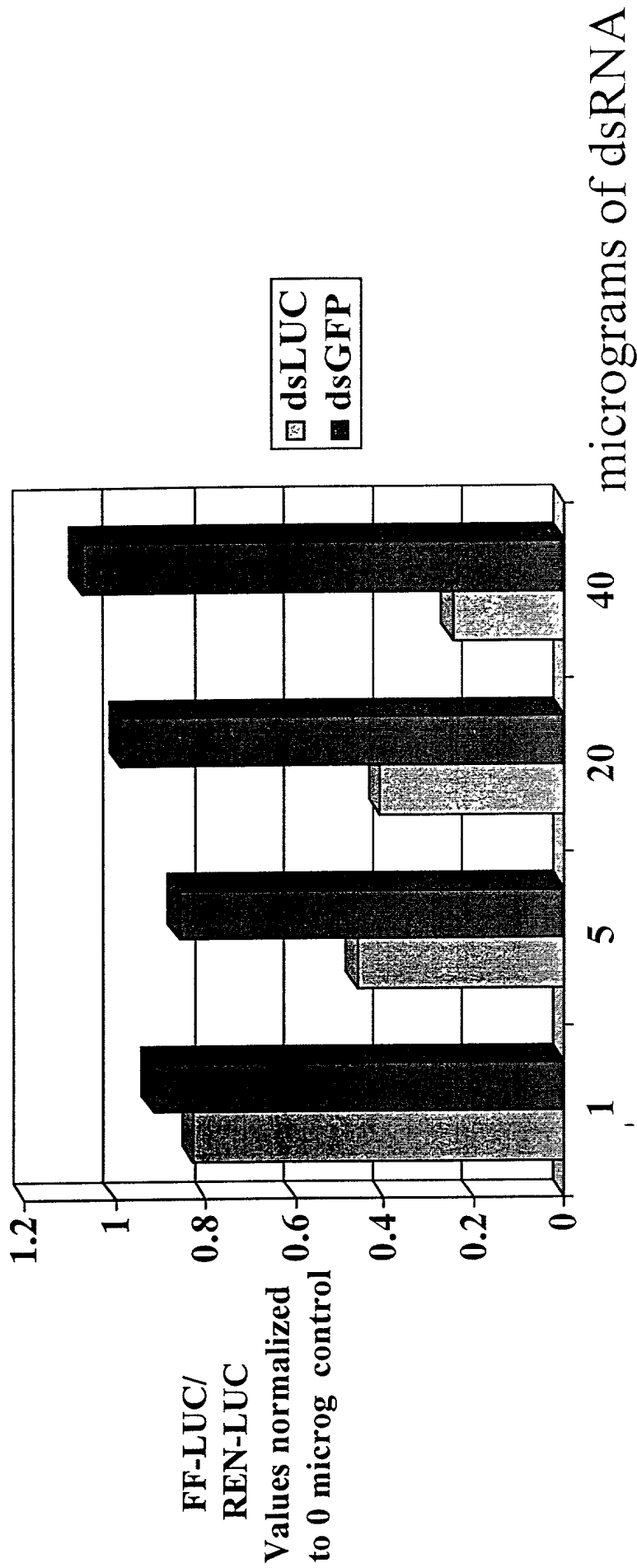
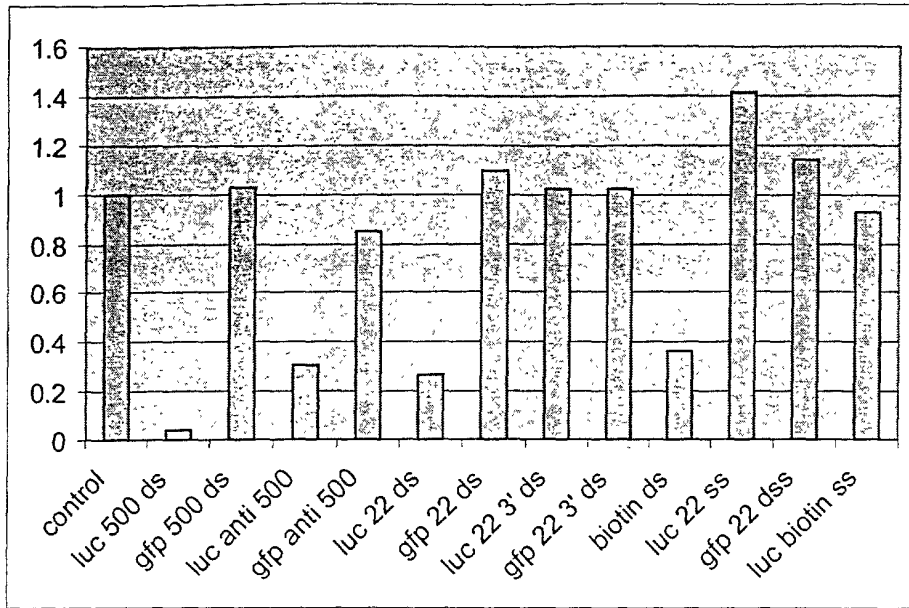


Figure 32

Figure 33



704250" 43333360